Simeone Marino

List of Publications by Year
in descending order

46 papers	4,720 citations	218677 26 h-index	254184 43 g-index
49 all docs	49 docs citations	49 times ranked	5534 citing authors

#	Article	IF	Citations
1	DataSifter II: Partially synthetic data sharing of sensitive information containing time-varying correlated observations. Journal of Algorithms and Computational Technology, 2022, 16, 174830262110653.	0.7	1
2	Compressive Big Data Analytics: An ensemble meta-algorithm for high-dimensional multisource datasets. PLoS ONE, 2020, 15, e0228520.	2.5	5
3	Predictive Big Data Analytics using the UK Biobank Data. Scientific Reports, 2019, 9, 6012.	3.3	17
4	HDDA: DataSifter: statistical obfuscation of electronic health records and other sensitive datasets. Journal of Statistical Computation and Simulation, 2019, 89, 249-271.	1.2	6
5	The Role of Dimensionality in Understanding Granuloma Formation. Computation, 2018, 6, 58.	2.0	11
6	Controlled feature selection and compressive big data analytics: Applications to biomedical and health studies. PLoS ONE, 2018, 13, e0202674.	2.5	9
7	Mathematical and computational approaches in understanding the immunobiology of granulomatous diseases. Current Opinion in Systems Biology, 2018, 12, 1-11.	2.6	5
8	Dynamic balance of proâ€•and antiâ€•inflammatory signals controls disease and limits pathology. Immunological Reviews, 2018, 285, 147-167.	6.0	175
9	A review of computational and mathematical modeling contributions to our understanding of Mycobacterium tuberculosis within-host infection and treatment. Current Opinion in Systems Biology, 2017, 3, 170-185.	2.6	61
10	A Multi-Compartment Hybrid Computational Model Predicts Key Roles for Dendritic Cells in Tuberculosis Infection. Computation, 2016, 4, 39.	2.0	39
11	Computational and Empirical Studies Predict Mycobacterium tuberculosis-Specific T Cells as a Biomarker for Infection Outcome. PLoS Computational Biology, 2016, 12, e1004804.	3.2	38
12	Computational Modeling Predicts IL-10 Control of Lesion Sterilization by Balancing Early Host Immunityâ€"Mediated Antimicrobial Responses with Caseation during <i>Mycobacterium tuberculosis</i> Infection. Journal of Immunology, 2015, 194, 664-677.	0.8	63
13	Variability in Tuberculosis Granuloma T Cell Responses Exists, but a Balance of Pro- and Anti-inflammatory Cytokines Is Associated with Sterilization. PLoS Pathogens, 2015, 11, e1004603.	4.7	275
14	An anthropologically based model of the impact of asymptomatic cases on the spread of Neisseria gonorrhoeae. Journal of the Royal Society Interface, 2015, 12, 20150067.	3.4	9
15	Macrophage Polarization Drives Granuloma Outcome during Mycobacterium tuberculosis Infection. Infection and Immunity, 2015, 83, 324-338.	2.2	149
16	Tuneable resolution as a systems biology approach for multiâ€•scale, multiâ€•compartment computational models. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2014, 6, 289-309.	6.6	53
17	Mathematical modeling of primary succession of murine intestinal microbiota. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 439-444.	7.1	183
18	Phase variation and host immunity against high molecular weight (HMW) adhesins shape population dynamics of nontypeable Haemophilus influenzae within human hosts. Journal of Theoretical Biology, 2014, 355, 208-218.	1.7	9

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19	Microenvironments in Tuberculous Granulomas Are Delineated by Distinct Populations of Macrophage Subsets and Expression of Nitric Oxide Synthase and Arginase Isoforms. Journal of Immunology, 2013, 191, 773-784.	0.8	292
20	A Mathematical Model of Gene Therapy for the Treatment of Cancer. Lecture Notes on Mathematical Modelling in the Life Sciences, 2013, , 367-385.	0.4	23
21	Intracellular Bacillary Burden Reflects a Burst Size for Mycobacterium tuberculosis In Vivo. PLoS Pathogens, 2013, 9, e1003190.	4.7	104
22	Inoculation Dose of Mycobacterium tuberculosis Does Not Influence Priming of T Cell Responses in Lymph Nodes. Journal of Immunology, 2013, 190, 4707-4716.	0.8	16
23	A Systems Biology Approach for Understanding Granuloma Formation and Function in Tuberculosis. , 2013, , 127-155.		7
24	A multifaceted approach to modeling the immune response in tuberculosis. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2011, 3, 479-489.	6.6	50
25	A hybrid multi-compartment model of granuloma formation and T cell priming in Tuberculosis. Journal of Theoretical Biology, 2011, 280, 50-62.	1.7	81
26	Optimizing ethanol production selectivity. Mathematical and Computer Modelling, 2011, 53, 1363-1373.	2.0	4
27	Multiscale Computational Modeling Reveals a Critical Role for TNF-Î± Receptor 1 Dynamics in Tuberculosis Granuloma Formation. Journal of Immunology, 2011, 186, 3472-3483.	0.8	158
28	TNF and IL-10 are major factors in modulation of the phagocytic cell environment in lung and lymph node in tuberculosis: A next-generation two-compartmental model. Journal of Theoretical Biology, 2010, 265, 586-598.	1.7	83
29	Characterizing the Dynamics of CD4+ T Cell Priming within a Lymph Node. Journal of Immunology, 2010, 184, 2873-2885.	0.8	54
30	A methodology for performing global uncertainty and sensitivity analysis in systems biology. Journal of Theoretical Biology, 2008, 254, 178-196.	1.7	1,985
31	Tumor Necrosis Factor Blockade in Chronic Murine Tuberculosis Enhances Granulomatous Inflammation and Disorganizes Granulomas in the Lungs. Infection and Immunity, 2008, 76, 916-926.	2.2	128
32	The Effects of HIV-1 Infection on Latent Tuberculosis. Mathematical Modelling of Natural Phenomena, 2008, 3, 229-266.	2.4	26
33	Stability Analysis of a Mathematical Model of the Immune Response with Delays. , 2007, , 177-206.		8
34	Differences in Reactivation of Tuberculosis Induced from Anti-TNF Treatments Are Based on Bioavailability in Granulomatous Tissue. PLoS Computational Biology, 2007, 3, e194.	3.2	82
35	The role of delays in innate and adaptive immunity to intracellular bacterial infection. Mathematical Biosciences and Engineering, 2007, 4, 261-286.	1.9	21
36	Regulation of glycolysis in Lactococcus lactis: an unfinished systems biological case study. IET Systems Biology, 2006, 153, 286.	2.0	53

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37	AN AUTOMATED PROCEDURE FOR THE EXTRACTION OF METABOLIC NETWORK INFORMATION FROM TIME SERIES DATA. Journal of Bioinformatics and Computational Biology, 2006, 04, 665-691.	0.8	34
38	Understanding the Immune Response in Tuberculosis Using Different Mathematical Models and Biological Scales. Multiscale Modeling and Simulation, 2005, 3, 312-345.	1.6	47
39	Mycobacterium tuberculosis as viewed through a computer. Trends in Microbiology, 2005, 13, 206-211.	7.7	27
40	Challenges for the identification of biological systems from in vivo time series data. In Silico Biology, 2005, 5, 83-92.	0.9	16
41	The human immune response to Mycobacterium tuberculosis in lung and lymph node. Journal of Theoretical Biology, 2004, 227, 463-486.	1.7	141
42	Dendritic Cell Trafficking and Antigen Presentation in the Human Immune Response to<i>Mycobacterium tuberculosis</i>. Journal of Immunology, 2004, 173, 494-506.	0.8	115
43	The importance of an inter-compartmental delay in a model for human gastric acid secretion. Bulletin of Mathematical Biology, 2003, 65, 963-990.	1.9	4
44	Computing DIT from energy expenditure measures in a respiratory chamber: a direct modeling method. Computers in Biology and Medicine, 2002, 32, 297-309.	7.0	7
45	Different limit to the body's ability of increasing fat-free mass. Metabolism: Clinical and Experimental, 2001, 50, 1004-1007.	3.4	27
46	Operational research techniques in medical treatment and diagnosis: A review. European Journal of Operational Research, 2000, 121, 435-466.	5.7	15